| Index of Claims | Application No. | Applicant(s)  LARSON ET AL |  |  |  |  |
|-----------------|-----------------|----------------------------|--|--|--|--|
|                 | 10/666,447      |                            |  |  |  |  |
|                 | Examiner        | Art Unit                   |  |  |  |  |
|                 | Naoko Slack     | 3635                       |  |  |  |  |
|                 |                 |                            |  |  |  |  |

| 1 | Rejected | i | - | (Through numeral)<br>Cancelled | A | Non-Elected  | A | Appeal   |
|---|----------|---|---|--------------------------------|---|--------------|---|----------|
| = | Allowed  |   | ÷ | Restricted                     | ı | Interference | 0 | Objected |

| Claim  | n                                                                                                                          | Date    |                    |              |         |         |              | Claim Date |           |          |                       |          |              |           |          | ]        | Cla     | aim     | Date    |     |          |            |          |           |                                   |           |              |           |                 |          |          |
|--------|----------------------------------------------------------------------------------------------------------------------------|---------|--------------------|--------------|---------|---------|--------------|------------|-----------|----------|-----------------------|----------|--------------|-----------|----------|----------|---------|---------|---------|-----|----------|------------|----------|-----------|-----------------------------------|-----------|--------------|-----------|-----------------|----------|----------|
| 7      | <u></u>                                                                                                                    | 3       |                    | Т            | Τ       | Т       |              | Г          |           |          | <u>m</u>              | 40/91/h  |              |           |          |          |         |         |         |     |          | ਯ          |          |           |                                   | . !       |              |           |                 | -        |          |
| Final  | Original                                                                                                                   | 70/11/4 |                    |              |         | i       |              |            |           | Final    | Original              | 2        | .            |           |          |          |         |         |         |     | Final    | Original   |          |           | .                                 |           |              |           | i               |          | . !      |
| ፲፰   🧏 | Ĕ                                                                                                                          | 3       | 1                  |              | 1       | 1       | 1            |            |           | ļ iī     | :   <u>'</u> हैं      | 9)/      |              | ļ         |          | - [      |         |         |         |     | ίΞ       | Ö          |          |           | . [                               | .         |              |           |                 |          | , 1      |
|        |                                                                                                                            | 3       |                    | $\perp$      | ᆚ       |         | 丄            |            |           | <u> </u> |                       | 4        |              | _         | _        | _        |         |         |         |     |          |            |          |           | ${\color{red} oldsymbol{\sqcup}}$ | $\square$ |              | $\square$ | $\sqcup$        | _        | لــــا   |
|        | 1-                                                                                                                         |         |                    | ┸            |         |         |              | ┷          | Ш         | <u> </u> | 51 <sup>-</sup><br>52 |          |              | _         | _        | 4        | 4       | 4_      |         |     |          | 101        |          |           |                                   |           |              | Щ         | $\sqcup$        |          |          |
|        | 2                                                                                                                          |         |                    | ┸            |         | $\perp$ | ot           |            | Ш         |          | 52                    |          |              |           |          | $\perp$  |         |         |         |     |          | 102        |          | Ш         | $\square$                         |           | _            | $\square$ | 1               |          |          |
|        | 3                                                                                                                          |         |                    | 丄            | $\perp$ |         |              |            |           |          | 53                    |          | Ш            |           | _        |          |         | 丄       |         | -   |          | 103        |          |           |                                   | Ш         | _            | $\square$ | $\sqcup$        | _        | _        |
| 4      | 4                                                                                                                          |         |                    |              | 丄       | ┸       |              |            |           |          | 54                    | L        | Ш            |           | $\perp$  |          |         | 上       |         |     |          | 104<br>105 |          | Щ         | $\square$                         | Ш         | _            |           | Ш               |          | _        |
| - 4    | \$                                                                                                                         |         |                    | $\perp$      | 丄       | $\perp$ | $\perp$      | 1          | Ш         |          | 55                    | L        |              |           |          | $\perp$  |         | ┸       | ļ       |     |          | 105        | Щ        |           |                                   | Ш         | $\dashv$     | Ш         | Ш               | _        |          |
|        | 6                                                                                                                          |         | $\perp$            | $\perp$      | 丄       | _       | 1_           |            | Ш         |          | 56                    |          |              | $\dashv$  | _        | _        | _       | $\bot$  |         |     | <u> </u> | 106        | Ш        | Ш         |                                   | $\square$ |              | Ш         | Щ               | _        |          |
|        | 7                                                                                                                          |         |                    | _            | _       |         | ┸            | 1_         | Ш         | <u> </u> | 57                    |          | Ш            | _         | _        | _        | _       | 4       |         |     | L        | 107        | _        |           | $\sqcup$                          | Ш         |              | $\dashv$  | $\dashv$        | _        | _        |
|        | 8                                                                                                                          | _       | _ _                | ┸            | _ _     |         | 1_           |            | Ш         | <u> </u> | 58                    | L        |              | _         | _        | _        |         | ┸       | Ь.      |     |          | 108        | _        |           |                                   | $\square$ |              | Щ         | $\sqcup$        | $\dashv$ | _        |
|        | 9                                                                                                                          |         |                    | $\bot$       | ┸       | 丄       | _            |            | Ш         | <u> </u> | 59                    | 匚        |              | _         | 4        | _        |         | 4       |         |     |          | 109        | <u>_</u> | Щ         |                                   | $\square$ |              | $\square$ | $\sqcup$        | $\dashv$ | _        |
| 1      | 10                                                                                                                         | $\Box$  |                    | ┸            | $\perp$ | $\perp$ | $\perp$      |            | Ш         | <u> </u> | 6þ                    |          |              | 4         | _        | _        | _ _     | 1       |         |     |          | 110        | _        |           | Ш                                 |           | _            | $\square$ |                 | _        | _        |
| 1      | 恒                                                                                                                          | _       |                    | $\perp$      | 1       | $\perp$ | 1            | 1_         | Ш         | <u> </u> | 61                    | _        |              | _         | _        | $\perp$  | _       | 4       | 1-      |     |          | 111        | <u> </u> |           | $\sqcup$                          | Щ         | $\dashv$     | Щ         | $\dashv$        | _        |          |
| 1      | 12<br>13                                                                                                                   |         | $\perp$            | 丄            | 1       | $\bot$  | 1            | ļ          | Ш         |          | 62                    |          | Ш            |           |          | _        | 4-      | 4       | _       | -   | ļ        | 112        | <u> </u> | Ш         | $\sqcup$                          | Щ         | $\dashv$     | $\vdash$  | $\vdash \vdash$ | _        |          |
|        |                                                                                                                            |         |                    | 丄            | _ _     | 4       | 4            | _          | Ш         |          | 63                    | <u>_</u> |              | $\Box$    | $\dashv$ | _        |         | 4       | 1       |     |          | 113        | <u> </u> | $\square$ | $\sqcup$                          | $\square$ | $\dashv$     | $\dashv$  | $\vdash$        |          |          |
|        | 14                                                                                                                         |         | $\perp\!\!\!\perp$ | $\perp$      | $\perp$ | $\perp$ | 1            | 1_         | Ш         | <u> </u> | 64                    | _        | Ш            | _         | _        | _        | _       | 4       | 1       | 1   |          | 114        | $\vdash$ | Ш         | $\sqcup$                          | $\square$ |              | Щ         | $\square$       | _        |          |
| 1      | 15                                                                                                                         |         | $\bot$             | 4            | $\perp$ | $\bot$  | 丰            |            | Ш         | <u> </u> | 65                    |          |              |           | _        | _        | _       | 4       | 1       |     |          | 115        | <u> </u> | Ш         | Щ                                 |           | $\dashv$     | $\sqcup$  | Ш               |          |          |
| 1      | 16                                                                                                                         |         |                    |              | $\perp$ | $\perp$ | $\perp$      | 1_         | Ш         |          | 66                    | <u> </u> |              | $\Box$    |          | _        | _       | 4       | _       |     | <u> </u> | 116        |          | Ш         | $\square$                         |           |              | $\sqcup$  | Ш               | _        | _        |
|        | 17                                                                                                                         |         | _ _                | $\perp$      |         | $\perp$ | _            | 1_         | Ш         | <u></u>  | 67                    | <u> </u> | Ш            |           | _        |          | _       | 4       |         |     |          | 117        | <u> </u> | Щ         |                                   | $\square$ |              |           | $\sqcup$        | _        |          |
|        | 1 <u>B</u>                                                                                                                 |         |                    | $\perp$      | 丄       |         | 1            | $\perp$    | Ш         |          | 68                    | _        | Ш            | $\Box$    | $\dashv$ | $\dashv$ |         | $\perp$ | 1       |     |          | 118        | <u> </u> | Ш         | Ш                                 | $\square$ |              | Ш         | Ш               | _        |          |
| 1      | 19                                                                                                                         |         | ᆜ                  | $\perp$      | 丄       | $\perp$ | $\perp$      |            | Ш         |          | 69                    | _        |              |           |          | _        |         | 1       | $\perp$ |     |          | 119        |          | Ш         | Ш                                 | Ш         |              | Ш         |                 |          | <u>_</u> |
| 2      | <b>2</b> 0                                                                                                                 |         |                    | $\perp$      |         |         | $\downarrow$ |            | Ш         |          | 7þ                    | <u> </u> |              |           |          |          | _       | $\perp$ | $\perp$ |     |          | 120        | _        | Ш         |                                   | Щ         | Щ            | Ш         | Ш               | _        |          |
| 2      | <u>*</u>                                                                                                                   |         |                    | $\perp$      | $\perp$ | $\perp$ | $\perp$      |            | Ш         | <u></u>  | 71                    | <u> </u> | Ш            |           | _        |          |         |         | _       | ]   |          | 121        | _        | Ш         | Ш                                 | Ш         | ш.           | Ш         | Ш               | _        | _        |
| 2      | 2/2                                                                                                                        |         |                    |              | ┸       |         |              |            |           |          | 72                    | <u> </u> |              |           |          |          | $\perp$ |         |         | Į   |          | 122        |          |           | Ш                                 | Ш         | Ш            | Ш         |                 |          | <u></u>  |
| 2      | 28                                                                                                                         |         |                    | $\perp$      | $\perp$ | $\perp$ | 上            | $\perp$    | Ш         |          | 73                    | <u> </u> |              |           |          |          | $\perp$ | $\perp$ |         | 1   |          | 123        | _        | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          |          |
| 2      | 44                                                                                                                         |         |                    | ᆚ            | $\perp$ |         | $\perp$      |            | Ш         | <u> </u> | 74                    | =        |              |           |          | _        |         |         |         | ļ   | ļ        | 124        |          | Ш         | Ш                                 | Ш         |              |           | Ш               | $\dashv$ |          |
| 2      | 25                                                                                                                         |         |                    |              | $\perp$ |         | $\perp$      | 1_         | Ш         |          | 75                    | Ш        |              |           | $\perp$  | _        |         | ┸       |         | ]   |          | 125        | L        | Ш         |                                   | Ш         |              |           | Ш               | $\Box$   | <u></u>  |
| 2      | 26                                                                                                                         |         |                    | $\perp$      |         | $\perp$ | $\perp$      | $\perp$    | Ш         |          | 76                    | Ш        |              | $\Box$    |          |          |         | ┸       |         | ļ   |          | 126        | _        | Ш         | Ш                                 | Ш         | $\square$    | Ш         |                 | _        | _        |
| 2      | 27                                                                                                                         |         |                    | $\perp$      |         |         | 1            | $\perp$    | Ш         |          | 77                    | Ш        |              |           | _        | _        | $\perp$ | _       |         |     |          | 127        |          | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          | Ĺ        |
| 2      | 2/8                                                                                                                        |         |                    | $\perp$      | $\perp$ |         |              |            |           |          | 78                    | 1        |              |           |          | _        | $\perp$ |         | ᆚ_      |     |          | 128        | _        | Ц         | Ш                                 |           | Ш            | Ш         |                 | $\dashv$ | _        |
| 2      | 29                                                                                                                         |         |                    | $\perp$      | ┸       | 丄       | <u>.</u>     |            |           |          | 79                    | =        |              |           |          | $\perp$  |         | ┸       | ┸-      | ]   | <u> </u> | 129        |          |           | Ш                                 | Ш         | Щ            | ш         | Ш               |          | _        |
| 3      | 3D                                                                                                                         |         |                    | ᆚ            |         |         | $\perp$      |            | $\square$ |          | 80                    | 1        |              |           | $\perp$  |          |         | 1       |         | ] . |          | 130        |          |           | Ш                                 |           | Ш            | Ш         | $\Box$          | _        | _        |
| 3      | 19<br>20<br>21<br>22<br>23<br>24<br>25<br>26<br>27<br>28<br>30<br>31<br>32<br>33<br>34<br>33<br>35<br>33<br>37<br>38<br>38 |         |                    |              |         |         | $\perp$      |            | Ш         | $\perp$  | 81                    | O        | $oxed{oxed}$ | $\Box$    |          | _        | 4       | $\perp$ | $\perp$ | 1   |          | 131        | <u> </u> | Ш         | Ш                                 | Ш         | Ш            | Ш         | Ш               |          | <u> </u> |
| 3      | 3/2                                                                                                                        |         |                    |              |         |         |              |            | Ш         |          | 82                    | 1        | $oxed{oxed}$ |           |          | _        | $\perp$ | $\perp$ | $\perp$ |     | <u> </u> | 132        | L_       | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          | $\vdash$ |
| 3      | 33                                                                                                                         |         |                    | $\perp$      |         | $\perp$ | $\perp$      | $\perp$    | Ш         | $\perp$  | 83                    | 1        | $oxed{oxed}$ |           |          |          | $\perp$ | $\bot$  | _       | ļ   | <u> </u> | 133        | <u> </u> | Ш         | Ш                                 | Ш         | Ш            | Ш         | Ш               |          |          |
| 3      | 34                                                                                                                         |         | $\perp$            | $\perp$      | L       | $\perp$ | ┸            | _          | Ш         | $\perp$  | 84                    | 1        | L_           |           |          | 4        | $\perp$ |         | 4_      |     |          | 134        | <u> </u> | Ш         | Ш                                 | Щ         | Ш            | Ш         | $\sqcup$        |          | <u> </u> |
| 3      | 345                                                                                                                        |         |                    | 丄            | _       | _ _     | _            | _          | Ш         | $\vdash$ | 85                    | 1        |              | Ш         |          | _        | $\bot$  | $\perp$ | 4       | ļ   |          | 135        | <u> </u> | Щ         | $\sqcup$                          | Щ         |              | Ш         | $\sqcup$        | _        | <u> </u> |
| 3      | 36                                                                                                                         |         |                    | ᆚ            | _       | $\perp$ | $\perp$      | $\perp$    | Ш         |          | 86                    | <u> </u> | <u> </u>     |           | _1       | _        | _       | $\perp$ |         | Į   | <u> </u> | 136        | <u> </u> | Ш         | Ш                                 | Щ         | Ш            | Ш         | $\sqcup$        |          | _        |
| 3      | 37                                                                                                                         |         | _                  | 4            | $\perp$ | _       | $\perp$      | _          | Ш         |          | 87                    | <u> </u> | L_           |           | _        | _        | 4       | _       | 4_      | 1   |          | 137        | <u> </u> | Ш         | $\sqcup$                          | $\sqcup$  | Ш            | Ш         | $\vdash \dashv$ |          | <u> </u> |
| 3      | 348                                                                                                                        |         | _                  | _            | _ _     |         |              | 4          | Ш         | $\vdash$ | 88                    | <u>Ļ</u> | L.,          | Ш         | $\perp$  | $\perp$  | $\bot$  | _       | 4_      | Į   | <u> </u> | 138        | <u> </u> | Щ         | $\sqcup$                          | Щ         | Ш            | Ш         | $\vdash \vdash$ | _        |          |
| 3      | 349                                                                                                                        |         | $\perp$            | 丄            | $\perp$ | $\perp$ | _            | 4_         | Ш         | <u> </u> | 89                    | 辶        | $oxed{oxed}$ | Ш         |          | _        |         | _ _     |         | 1   |          | 139        | <u> </u> | Ш         | $\sqcup$                          |           | Ш            | Ш         | Ш               |          |          |
|        | 4D                                                                                                                         |         | _                  |              |         | 4       | $\perp$      | _          | Ш         | $\vdash$ | 90                    | _        | L_           | $\square$ | _        |          |         | 4       | 4       | Į   | <u></u>  | 140        | <b>!</b> | Ш         | Ш                                 | Щ         | $oxed{oxed}$ | Ш         | $\vdash$        |          | <u> </u> |
| 4      | 41                                                                                                                         |         | $\perp$            |              |         | 1       | $\perp$      |            | Ш         |          | 91                    |          | <u> </u>     | Ш         |          | 4        | _       | $\perp$ | 4_      | Į   |          | 141        | <u> </u> | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          |          |
| 4      | 42<br>43                                                                                                                   |         | $\Box$             | $\perp$      | L       | ┸       | 1            | $\perp$    | Щ         |          | 92                    |          |              | Ш         |          | _        | _       | $\perp$ |         |     |          | 142        | <u> </u> | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          |          |
| 4      | <b>4</b> β                                                                                                                 |         |                    | 4            | 丄       | 4       | $\perp$      | _          | Щ         | $\perp$  | 93                    |          | _            | Ш         |          |          |         | - -     | 4       |     |          | 143        | <u> </u> | Ш         | Ш                                 | $\sqcup$  |              | Ш         | Ш               |          | _        |
| 4      | 444                                                                                                                        |         |                    | $\perp$      | ┸       | $\perp$ | $\perp$      | _          | Ш         | <u> </u> | 94                    | <u> </u> |              | Ш         |          |          |         | 4       | 4       |     |          | 144        | <u> </u> | Ш         | $oxed{oxed}$                      | Ш         | $\sqcup$     | $\sqcup$  | $\sqcup$        |          | <u> </u> |
| 4      | 45                                                                                                                         |         |                    | $\perp$      |         | 1       | L            |            | Ш         |          | 95                    | <u> </u> | L_           |           |          |          | 4       | $\perp$ |         | 1   |          | 145        | <u> </u> | Ш         |                                   | Ш         |              | Ш         | Ш               |          | _        |
| 4      | 45<br>46<br>47                                                                                                             |         |                    |              | Ĺ       |         | $\perp$      | <u> </u>   |           |          | 96                    |          |              |           | $\perp$  | _        | $\perp$ | $\perp$ | _       | ļ   |          | 146        | ldash    | Ш         | Ш                                 | Ш         |              | Ш         | Ш               |          | L_       |
| 4      | 47                                                                                                                         |         |                    |              |         |         |              |            |           |          | 97                    |          |              |           |          |          |         |         | _       | ]   |          | 147        |          |           | Ш                                 | Ш         |              | $\sqcup$  | Ш               |          |          |
| 4      | 48                                                                                                                         |         |                    |              |         |         | $\perp$      |            |           |          | 98                    |          |              |           | $\perp$  | $\perp$  | $\perp$ |         |         | ļ   |          | 148        |          | Ш         | Ш                                 | Ш         | Ш            | $\sqcup$  | Ш               |          | L        |
| 4      | 49<br>50-                                                                                                                  |         | $\Box$             | $oxed{oxed}$ |         |         | $\perp$      |            |           |          | 99                    |          |              |           | $\bot$   |          |         | _ل_     |         |     |          | 149        | L_       | Ш         | Ш                                 | Ш         |              | $\sqcup$  | Ш               |          | L        |
| 5      | 50-                                                                                                                        |         |                    |              |         | $\perp$ | Ĺ            |            |           | L        | 100                   | L        |              |           | $\perp$  | $\bot$   |         | L       |         | J   | L        | 150        | <u> </u> | $\sqcup$  | Ш                                 | Ш         |              | Ш         | Ш               |          |          |